

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-18 (Canceled).

Claim 19 (New): A computer-based system for dynamic assignment of carrier frequencies to computerized access points of a wireless local area network, comprising:

- a communication module for connection of the computer-based system via a communication connection to the computerized access points;
- a memory module for storing access point data about the computerized access points, which access point data comprises in each case at least a present carrier frequency of the respective computerized access point;
- an optimization module for determining a carrier frequency for a first of the computerized access points, based on the stored access point data about the computerized access points;
- a channel switching module for setting the determined carrier frequency in the first computerized access point via the communication connection; and
- means for calculating weighting factors for the computerized access points, each based on captured operational values of the respective computerized access point,

wherein

- the memory module is configured to store access point data comprising the calculated weighting factors of the computerized access points, and
- the optimization module is configured to determine the carrier frequency for a first computerized access point from among a multiplicity of defined radio frequency channels, one radio frequency channel with an assigned carrier frequency is selected such that the sum of the differences between the assigned carrier frequency and the stored present carrier

frequencies of the second computerized access points is as large as possible, the differences being weighted in each case using the stored weighting factor for the respective second computerized access point.

Claim 20 (New): A computer-based system according to claim 19, further comprising a monitoring module for capturing present operational values of the first computerized access point via the communication connection

Claim 21 (New): A computer-based system according to claim 19, wherein the means for calculating weighting factors is configured to calculate the weighting factor for the first computerized access point based on a use rate for the first computerized access point, based on a failure rate for the first computerized access point, and based on a use probability for the first computerized access point.

Claim 22 (New): A computer-based system according to claim 20, wherein the monitoring module is configured to capture a present operational value of the first computerized access point indicating a present number of users who are associated with the first computerized access point, to capture a present operational value of the first computerized access point indicating a present number of received faulty data packets at the first computerized access point, and to capture a present operational value of the first computerized access point indicating a present number of received errorless data packets at the first computerized access point.

Claim 23 (New): A computer-based system according to claim 22, wherein the means for calculating weighting factors is configured to calculate the weighting factor for the

first computerized access point, based on a use rate which is calculated by dividing a captured number of users of the first computerized access point by a maximal number of users of the first computerized access point, based on a failure rate, which is calculated by dividing a captured number of received faulty data packets at the first computerized access point by a total number of received data packets at the first computerized access point, and based on a use probability which is calculated from stored historical values for the captured number of users of the first computerized access point.

Claim 24 (New): A computer-based system according to claim 19, configured to activate the optimization module for determining the carrier frequency of the first computerized access point when captured present operational values of the first computerized access point indicate that a present number of users who are associated with the first computerized access point is zero, and that a present number of received faulty data packets at the first computerized access point exceeds a defined tolerance value.

Claim 25 (New): A computer-based system according to claim 20, further comprising:

a first autonomous agent module, which is assigned to the first computerized access point; and

second autonomous agent modules, which are each respectively assigned to one of the second computerized access points;

wherein the first and the second agent modules are each implemented functionally in a same way, and comprise a monitoring module, a memory module, means for calculating weighting factors, an optimization module, a channel switching module, and an update module, which update module is configured to exchange the access point data about the

assigned computerized access point among the agent modules, the access point data comprising in each case an access point identification, a present carrier frequency and a calculated weighting factor of the assigned computerized access point, wherein the agent modules are each configured to activate the monitoring module of the respective agent module periodically to capture present operational values in the associated computerized access point, and wherein the agent modules are each configured to activate the update module of the respective agent module for the exchange of the access point data after a determined carrier frequency has been set by the channel switching module of the respective agent module in the associated computerized access point.

Claim 26 (New): A computer-based system according to claim 25, wherein the memory module is configured to store historical access point data about the computerized access points, and wherein the agent modules are each configured not to activate the update module of the respective agent module for an exchange of the access point data if the stored access point data of the respective agent module coincide with historical access point data of the respective agent module.

Claim 27 (New): A computer-based system according to claim 25, wherein the first autonomous agent module and the second autonomous agent modules are each implemented on a separate computer, the separate computers being connected to one another via a communication connection.

Claim 28 (New): A computer-based system according to claims 25, wherein the first autonomous agent module and/or at least some of the second autonomous agent modules are implemented on a common computer.

Claim 29 (New): A computer program product comprising:

a computer-readable medium with computer program code means contained therein for control of one or more processors of a computer-based system for dynamic assignment of carrier frequencies to computerized access points of a wireless local area network that are connectible to the computer-based system via a communication connection such that:

access point data about the computerized access points are stored in the computer-based system, which access point data each comprises at least a present carrier frequency of the respective computerized access point,

a carrier frequency for a first of the computerized access points is determined by the computer-based system, based on the stored access point data about the computerized access points, and

the determined carrier frequency is set in the first computerized access point by the computer-based system via the communication connection,
wherein

the computer program product comprises further computer program code means which control the processors of the computer-based system such that:

a weighting factor is calculated by the computer-based system for the computerized access points based in each case on captured operational values of the respective computerized access point,

access point data are stored in the computer-based system which comprise the calculated weighting factors of the computerized access points, and

the carrier frequency for the first computerized access point is determined by the computer-based system from among a multiplicity of defined radio frequency channels one radio frequency channel with an assigned carrier frequency is selected

such that the sum of the differences between the assigned carrier frequency and the stored present carrier frequencies of the second computerized access points is as large as possible, the differences being weighted in each case using the stored weighting factor for the respective second computerized access point.

Claim 30 (New): A computer program product according to claim 29, further comprising further computer program code means that control the processors of the computer-based system such that present operational values of the first computerized access point are captured by the computer-based system via the communication connection.

Claim 31 (New): A computer program product according to claim 29, further comprising further computer program code means that control the processors of the computer-based system such that the weighting factor for the first computerized access point is calculated by the computer-based system based on a use rate for the first computerized access point, based on a failure rate for the first computerized access point, and based on a use probability for the first computerized access point.

Claim 32 (New): A computer program product according to claim 29, further comprising further computer program code means that control the processors of the computer-based system such that a present operational value for the first computerized access point is captured by the computer-based system indicating a present number of users who are associated with the first computerized access point, wherein a present operational value for the first computerized access point is captured by the computer-based system indicating a present number of faulty data packets received at the first computerized access point, and wherein a present operational value for first computerized access point is captured by the

computer-based system indicating a present number of errorless data packets received at the first computerized access point.

Claim 32 (New): A computer program product according to claim 32, further comprising further computer program code means that control the processors of the computer-based system such that the weighting factor for the first computerized access point is calculated based on a use rate, which is calculated by division of a captured number of users of the first computerized access point by a maximal number of users of the first computerized access point, based on a failure rate which is calculated by division of a captured number of received faulty data packets at the first computerized access point by the total number of received data packets at the first computerized access point, and based on a use probability which is calculated from stored historical values for a captured number of users of the first computerized access point.

Claim 34 (New): A computer program product according to claim 29, further comprising further computer program code means that control the processors of the computer-based system such that the computer-based system carries out the determination of the carrier frequency of the first computerized access point if captured present operational values of the first computerized access point indicate that a present number of users who are associated with the first computerized access point is zero, and that a present number of received faulty data packets at the first computerized access point exceeds a defined tolerance value.

Claim 35 (New): A computer program product according to claim 29, further comprising further computer program code means that control the processors of the

computer-based system such that the computer-based system acts as a first autonomous agent module, which is assigned to the first computerized access point, wherein the computer-based system acts as second autonomous agent modules which are each assigned to one of the second computerized access points, wherein the computer-based system periodically captures present operational values of the computerized access points, to which agent modules are assigned, wherein access point data about the computerized access points are exchanged by the computer-based system among the agent modules after the determined carrier frequency has been set in a computerized access point, to which an agent module is assigned, by the computer-based system, the access point data each comprising an access point identification, the present carrier frequency, and the calculated weighting factor of the respective computerized access point.

Claim 36 (New): A computer program product according to claim 35, further comprising further computer program code means that control the processors of the computer-based system such that in the computer-based system historical access point data about the computerized access points are stored, and wherein access point data about the computerized access points are not exchanged by the computer-based system among the agent modules if the stored access point data of the agent module which is assigned to the access point, in which a determined carrier frequency was set, coincide with historical access point data.